

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
29 September 2005 (29.09.2005)

PCT

(10) International Publication Number
WO 2005/091556 A3(51) International Patent Classification:
H04L 12/46 (2006.01)

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number:
PCT/EP2004/002754

(22) International Filing Date: 17 March 2004 (17.03.2004)

(25) Filing Language: English

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(26) Publication Language: English

(71) Applicant (for all designated States except US): TELEFONAKTIEBOLAGET LM ERICSSON (PUB) [SE/SE]; S-164 83 Stockholm (SE).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(72) Inventors; and

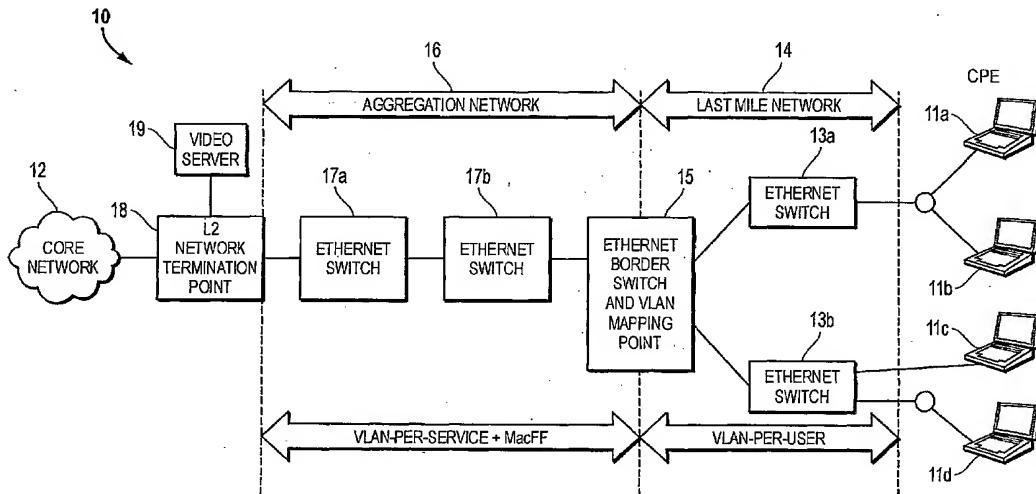
(75) Inventors/Applicants (for US only): JÖNSSON, Ulf, Fredrik [SE/SE]; Förvaltavägen 2, 3 tr, S- 169 68 Solna (SE). WEI, Zhao [CN/SE]; Professorsslingan 31 Läg 02, S-104 05 Stockholm (SE). AYADURAI, Vicknesan [MY/SE]; Arkens Gränd 23, S-192 78 Sollentuna (SE).

(88) Date of publication of the international search report: 6 April 2006

(74) Agent: SJÖBERG, Mats; Ericsson AB, Patent Unit Core Networks, Älvsjö, P.O. Box 1505, S-125 25 Älvsjö (SE).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: VLAN MAPPING FOR MULTI-SERVICE PROVISIONING



WO 2005/091556 A3

(57) Abstract: A Virtual Local Area Network, VLAN, Mapping Point (15), implemented at a border between first and second independently tagged VLAN regions (14,16), includes a mapping function that receives traffic packets from each of the VLAN regions, maps VLAN tags in the packets to associated VLAN tags for the other VLAN region, and forwards the packets using the associated VLAN tags. The first VLAN region may be a last-mile network (14) that connects to end users (11a-11d), and the second VLAN region may be an aggregation network (16) that connects to a core network (12). The VLAN Mapping Point (15) enables an end user to simultaneously access multiple services through a single broadband connection.